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STATE DOCUMENTS

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Annual Report

of the

Montana Livestock Sanitary Board

to the

Governor of Montana

Honorable Forrest H. Anderson

for the

FISCAL YEAR ENDED

June 30, 1971

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STATE OF MONTANA
LIVESTOCK SANITARY BOARD
Helena, Montana 59601

October 15, 1971

The Honorable Forrest H. Anderson
Governor
State of Montana
Helena, Montana 59601

Dear Governor Anderson:

In accordance with the requirements of Section 82-4002, RCM 1947, there is herewith transmitted to you the report of the Livestock Sanitary Board covering the fiscal year ended June 30, 1971.

Major accomplishments during the year included:

1. Prevented the reintroduction of several livestock diseases that once took a heavy toll of livestock in Montana and were eradicated from the State.

2. Revised the brucellosis eradication program to assure attainment of a Certified Brucellosis-Free State as soon as possible. Fifteen western Montana counties attained that goal during the year.

3. Maintained a dairy and milk inspection program that will permit a report that another year has gone by without a single milk borne disease outbreak in man from milk produced and distributed by licensed Montana dairymen and milk plants.

4. Assisted fifty-six small meat plants in Montana in meeting federal meat inspection standards. All plants having state meat inspection were granted federal meat inspection and now enjoy the same marketing privileges as the large federally inspected plants.

5. Concluded the expensive duplication of maintaining two systems of meat inspection in Montana.

6. Maintained a diagnostic laboratory essential to good disease control and the production of safe milk which was able to double the number of serological tests required by the brucellosis eradication program.

Respectfully submitted,

J. W. SAFFORD, D.V.M.
State Veterinarian & Executive Officer

JWS/jc

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LIVESTOCK SANITARY BOARD

OFFICER Term of Office	Home Address
F. T. SAYLOR, Chairman 3/1/67 - 3/1/73	Choteau
WILFORD F. JOHNSON, Vice-Chairman 3/1/67 - 3/1/73	Hall
ROBERT G. BARTHELMESS, Member 3/1/71 - 3/1/77	Miles City
JESS BLANKENSHIP, Member 3/1/69 - 3/1/75	Crow Agency
THOMAS EVANS, Member 3/1/69 - 3/1/75	Stanford
ROBERT H. SIMONS, Member 3/1/71 - 3/1/77	Turner

PRINCIPAL ADMINISTRATIVE OFFICERS

J. W. SAFFORD, D.V.M. Executive Officer and State Veterinarian

GLENN C. HALVER, D.V.M. Chief Deputy State Veterinarian; In Charge, Disease Control Division

BECKWITH HUBBELL, JR., D.V.M. In Charge, Diagnostic Laboratory Division

HERB BALLOU, M.S. In Charge, Dairy & Milk Inspection Division

HERBERT A. BROSZ, D.V.M. In Charge, Meat Inspection Division

PRINCIPAL OFFICES

Livestock Sanitary Board Livestock Building, Capitol Grounds, Helena

Diagnostic Laboratory Hadleigh Marsh Laboratories, Montana State University, Bozeman

GENERALLY

Article XII, Section 9 of the Constitution of Montana provides for a special levy on livestock, a source of funding, in part, of the operations of the Livestock Sanitary Board.

The statutes relating to the operations of the Montana Livestock Sanitary Board are contained in the following Sections of the 1947 Revised Codes of Montana: 46-201 through 46-246 (referred to as "Livestock Sanitary Board and State Veterinary Surgeon--Quarantine--Inspection and Destruction of Diseased Stock--Licensing Dairies, Milk Plants and Slaughterhouses"); 46-301 through 46-303 (referred to as "Tuberculin Regulation, Sale and Distribution"); 46-401 through 46-415 (referred to as the "Montana Meat Inspection Law"); 46-902 through 46-903, 46-905 through 46-907, 46-914 through 46-916 and 46-920 through 46-921 (referred to as "Livestock Markets--Inspection and Quarantine--License and Bonding"); 46-2401 through 46-2406 (referred to as "Rendering or Disposal Plants--Licensing--Regulation"); 46-2501 through 46-2515 (referred to as "Artificial Insemination of Animals and Poultry"); 46-2601 through 46-2611 (referred to as "Regulation of Industry Treating or Feeding Garbage to Swine and Other Animals"); 84-5209 through 84-5213 (referred to as "Livestock Taxation"); 84-6012 (referred to as "Livestock Brought Into State--Notice to Assessor"); 94-3559 (referred to as "Diseased Animals"); 94-3593 and 94-3594 (referred to as "Glanders--Animal Having, to be Killed--Using or Exposing Animals with Glanders");94-35-172 (referred to as "Sale of Diseased Carcasses Without Inspection Forbidden"); 94-35-189 (referred to as "Moving Diseased Sheep"); 94-35-190 (referred to as "Importing Diseased Cattle Into State"); 94-35-191 (referred to as "Infected Animals--Bringing Into State"); 94-35-192 (referred to as "Receiving or Transporting Diseased Cattle"); 94-35-193 (referred to as "State Veterinary Surgeon--Disobeying Orders Of"); and 94-35-194 (referred to as "Obstructing Veterinary Surgeon, etc.").

The principal goals of the Montana Livestock Sanitary Board are:

1. Apply the scientific disciplines of veterinary medicine to prevent the devastation and harm to the livestock industry and man that can be caused by uncontrolled diseases of animals.

2. Maintain a safe, wholesome milk and meat food supply.

PRIORITY		DISCRIPTION	PROGRAM
1.	A.	Prevented the reintroduction of costly livestock diseases which have been eradicated from Montana.	Disease Control
	B.	In advancing toward complete eradication of bovine brucellosis, maintained fifty-six counties as Modified-Certified Brucellosis Areas and attained the goal of "Certified Brucellosis-Free" for fifteen western Montana counties.	"
	C.	Maintained Montana as a Modified-Accredited Tuberculosis Area.	"
	D.	Maintained all dairy herds producing milk and cream for human consumption completely free of tuberculosis and brucellosis.	"
	E.	Maintained Montana as a Hog Cholera-Free State.	"
2.	A.	Maintained a level of dairy and milk inspection which resulted in not one single milk-borne disease outbreak in man.	Dairy & Milk Inspection
3.	A.	Revised the brucellosis eradication program to assume that Montana will qualify as "Certified Brucellosis-Free" in the near future.	Administration
4.	A.	Extended mandatory state meat inspection to a total of fifty-six small, widely distributed establishments.	Meat Inspection
	B.	Assisted state-inspected meat plants to qualify for and make the transition to federal meat inspection which provides, according to federal law, a non-restricted market for their meat and meat products.	"
5.	A.	Maintained diagnostic laboratory services essential to keeping a healthy livestock industry, to conducting disease control and eradication programs, and assuring consumers a safe milk and meat food supply.	Diagnostic Laboratory

1. Disease Control Program

A. Through utilization of statutory authority, a full-time veterinary medical staff and the entire veterinary medical profession in Montana, coordinated with disease control efforts throughout the United States, such ruinous diseases as cattle scabies, sheep scabies, hog cholera, Newcastle disease, foot-and-mouth disease, glanders, dourine and anthrax were prevented from being re-introduced or from re-occurring in Montana this past fiscal year. The economic return of raising livestock without these diseases can best be expressed by stating the fact that livestock production with any of these diseases being widespread would be impossible.

B. Brucellosis, for over fifty years the most costly and persistent disease ever to affect the Montana cattle industry and to jeopardize human health, is almost eradicated. Good progress was made toward the goal of complete freedom from this disease by the application of veterinary medical principles and scientific facts to a long-range, organized control program.

C. & D. Bovine tuberculosis no longer causes the economic waste to the cattle industry nor the danger to man it once did in Montana. The surveillance and eradication program must be continued to find that last infected animal to prevent the re-establishment of the disease.

E. Montana was declared hog cholera-free in 1964. At one time this disease laid waste to as high as eighty herds of swine per year. The swine industry has been free of the ravages of this disease since 1964. The disease still exists in many areas of the United States, therefore, a major effort must be exerted to prevent its re-introduction.

2. Dairy and Milk Inspection Program

A. In view of the ease with which diseases can be transmitted to man through milk, it is always considered a major accomplishment to see the dairy industry in cooperation with the dairy and milk inspection program of this Department and the U. S. Public Health Service able to report no milk-borne disease outbreaks during the fiscal year. This continued success of well-founded preventative measures has brought consumer confidence in the safety of milk and milk products that yields a great economic return to the dairy industry.

3. Administration Program

A. The continued evaluation and study of the bovine brucellosis eradication program revealed that for the past four years progress toward eradication had reached a stationary level with indications that, if permitted, the disease would increase and the effort made would just maintain Montana, a cattle exporting state, as a Modified-Certified Brucellosis Area. Many states that received Montana cattle were declared Certified Brucellosis-Free and testing embargoes were being placed on Montana cattle. The Board revised the program which resulted in increased testing of cattle being sold back to Montana ranches to further prevent transmission of the disease, increased the testing of cattle at slaughter establishments and provided for voluntary testing of 10% of the cattle in individual herds.

The results in the first year have advanced fifteen western Montana counties to qualify as Certified Brucellosis-Free and gives every indication that thirty-two more counties will attain this certification by the fall of 1971. The testing program prevented a number of infected cattle from being sold into brucellosis-free herds.

4. Meat Inspection Program

A. As required by federal law and under a cooperative agreement with the United States Department of Agriculture, Consumer & Marketing Service, mandatory state meat inspection was extended to a total of fifty-six very small, widely dispersed establishments in Montana.

B. For the past two years every effort was made to bring these very small, widely dispersed meat plants up to federal standards and impose a system of meat inspection equal to federal inspection.

The maintenance of state meat inspection, "equal to" federal inspection, in the fifty-six plants that slaughtered and processed only 10% of animals slaughtered in Montana would cost at least $7.50 for each animal slaughtered. Nine federally inspected plants operating in Montana slaughtered 90% of the animals in the state. The high volume slaughtered in federally inspected plants resulted in federal meat inspection being maintained in the United States at approximately 50¢ per head.

To maintain state meat inspection in Montana, as required by federal law, resulted in duplication of administrative personnel and procedures, supervisory personnel, training programs, laboratory support, travel and subsistence with that of the federal meat inspection program being maintained in the state, which could not be resolved with the USDA, Consumer & Marketing Service, Meat Inspection Division under the cooperative state-federal agreement.

The 10% of the animals slaughtered in federally-approved state-inspected establishments were restricted, by federal law, from being marketed in "interstate commerce"; whereas, the animals slaughtered under federal meat inspection could be marketed in interstate commerce. The federally-approved state-inspected establishments, eventhough they were required to maintain the same meat inspection standards as federal establishments, were at a distinct marketing disadvantage.

Following a complete review of the state meat inspection program in Montana and after determining that the USDA would be required, by federal law, to maintain state-wide mandatory meat inspection if the state did not, the Forty-Second Legislature did not appropriate any funds to maintain state meat inspection.

On April 28, 1971, all meat inspection was taken over by the federal government in Montana.

All plants that had state meat inspection were granted federal meat inspection, thus, the "pioneering" efforts of the state meat inspection program the past two years to meet federal standards in the small plants yielded good results.

The small plants, formerly under state meat inspection and now operating under federal meat inspection, are no longer operating under the marketing disadvantage of not being able to sell their products in interstate commerce.

The unnecessary and very expensive duplication of maintaining two systems of meat inspection within the State no longer exists.

An expenditure of $150,000 to $200,000 a year from the General Fund to support state meat inspection that covered only 10% of animals slaughtered in Montana is no longer needed.

5. Diagnostic Laboratory Program

A. The major accomplishment of the Diagnostic Laboratory was its ability to handle nearly double the number of tests over those conducted the year before. The increase in the number of tests occurred in the serology section, primarily, as a result of the increased brucellosis testing required by the Disease Control Program.

PRIORITY	RECOMMENDATION	PROGRAM
1.	Apply added emphasis to attain complete bovine brucellosis eradication.	Disease Control
2.	Establish a program to qualify Montana as swine "Validated Brucellosis-Free".	"
3.	Establish a pilot research-control program for anaplasmosis in Montana.	"
4.	Provide air conditioning in the Diagnostic Laboratory building in Bozeman.	Diagnostic Laboratory

1. Apply added emphasis to attain complete bovine brucellosis eradication.

When a disease, after many years effort, has been reduced to such a low level that it no longer causes extensive economic loss nor endangers public health, there is a tendency to eradicate the disease control program before the disease is completely eradicated. The brucellosis eradication is at this point in Montana. Assurances must be made that adequate funds and effort continue to be available to complete the work as soon as possible. This not only avoids larger expenditures of funds later on, but protects the great investment made over many years to control the disease.

2. Establish a program to qualify Montana as swine "Validated Brucellosis-Free".

Surveillance over the past fifteen years would indicate that swine brucellosis does not exist in Montana. Because of the danger of swine brucellosis to man, particularly slaughterhouse workers, and the economic loss sustained in infected herds, California has announced that after January 1, 1973 swine will not be accepted in California for any purpose unless they originate from officially Validated Brucellosis-Free Areas. There are indications that interstate regulations may prohibit swine moving in interstate commerce unless they originate from Validated Brucellosis-Free Areas. The swine industry is a healthy, growing industry in Montana and should not face marketing disadvantages that could result in actions announced by California. It is recommended that program procedures be established as soon as possible to qualify Montana as swine "Validated Brucellosis-Free". With all evidence indicating freedom from the disease, it will be only a matter of conducting sufficient tests to prove freedom from the disease. The program can be accomplished with present field and laboratory staff with funds available to the Disease Control Program.

3. Establish a pilot research-control program for anaplasmosis in Montana.

Sporadically anaplasmosis causes excessive losses to adult cattle in herds located in about 1/3 of the area of Montana. This past year Canada and Wisconsin are requiring negative complement fixation (CF) tests on cattle being shipped to them. A very high percentage of the cattle in the endemic area in Montana will react to the anaplasmosis CF test, are carriers of anaplasmosis and are barred from being sold in Canada, Wisconsin and New York. It is anticipated that other states will place similar embargoes into effect. Montana cattle will have some very definite restrictions placed on their movement and marketability. Because of the anaplasmosis vector-carrier animal interrelationships under Montana environmental conditions, it has never been established that a Montana range herd, once free of anaplasmosis in the endemic area, would remain free. It is recommended that efforts be continued to have the USDA, Animal Disease and Parasite Research Division, in conjunction with other anaplasmosis research-control projects in the United States, establish a pilot research-control project in Montana.

4. Provide air conditioning in the Diagnostic Laboratory building in Bozeman.

Insufficient funds when building the laboratory prevented the inclusion of air conditioning in the laboratory building, although the building was designed to be operated with an air conditioning unit. Lack of air conditioning has been

almost intolerable and, in some areas, has led to the impossibility of conducting some bacteriological work, such as setting up agar plates. Employees have been coming to work early in the morning and leaving in the early afternoon to avoid the heat during about 4 to 6 months of the year. We would recommend that approximately $50,000 be made available to procure and install the air conditioning unit. Thirty-seven percent of the cost should be borne by the Livestock Sanitary Board and sixty-three percent by the Montana Veterinary Research Laboratory, Montana State University, Bozeman.

PROGRAM -- ADMINISTRATION

GOALS AND OBJECTIVES

The goals and objectives of the Administration Program are to implement, incorporate and integrate the requirements of laws and regulations, through directives and orders of the Board and State Veterinarian, into efficient performance of the interrelated functions of (1) the animal Disease Control Program, (2) Dairy and Milk Inspection Program, (3) Meat Inspection Program and (4) the Diagnostic Laboratory Program.

*ACHIEVEMENTS

Assisted the Board to remain aware of new and changing federal and state laws, rules and regulations in order to make expedient and necessary application and adjustments to specific programs.

Maintained state-wide, national and international disease surveillance permitting prompt action in prevention of the introduction of dangerous animal diseases and to maintain an emergency disease control organization on an alert status prepared to take proper and decisive action to circumscribe and extirpate a disease that could be introduced.

Administration provided the other four Programs freedom to pursue their primary objectives by maintaining all temporary and permanent records, including, but not limited to, payroll, preparation of budgets, control of expenditures of budgeted funds, fiscal reports required by state and federal laws and agencies, personnel hiring, placement and management, and all business office operations.

Upon verifying compliance with laws and regulations, this Program issued licenses and permits to dairies, milk plants, milk distributors, artificial inseminators, breeding services, meat depots, meat packing houses, slaughterhouses, rendering plants, poultry shippers and garbage cooking establishments.

PERFORMANCE INDICATORS	 FISCAL YEAR.....		
	1968-69	1969-70	1970-71
Cost.....	$61,908	$65,894	$74,934
Performance:			
Board meetings.....	5	5	7
Regulations adopted, revised, rescinded.....	1	9	9
Licenses and permits issued.....	1,689	1,634	1,961

*See "Appendix A" in "Detailed Review of Programs".

PROGRAM -- DIAGNOSTIC LABORATORY

GOALS AND OBJECTIVES

The goals and objectives of the Diagnostic Laboratory Program are to furnish essential laboratory support vital to the successful function of the Disease Control Program, Dairy and Milk Inspection Program and the Meat Inspection Program. It is the goal and objectives within the Diagnostic Laboratory Program to always maintain and utilize scientifically valid testing and diagnostic procedures and to incorporate, as needed, all new scientific developments in each of the following disciplines: virology, bacteriology, pathology, parasitology, serology, chemistry, toxicology, necropsy and media preparation.

*ACHIEVEMENTS

The Diagnostic Laboratory continued to provide indispensable scientific diagnostic support to the Disease Control, Dairy and Milk Inspection and Meat Inspection Programs, the livestock industry and the veterinary medical profession of Montana with an increase from 110,694 tests and analyses performed in fiscal year 1969-70 to 225,662 tests and analyses performed in fiscal year 1970-71.

The Diagnostic Laboratory maintained U. S. Public Health Service approval of the milk and milk products testing laboratory.

Newer scientific techniques were incorporated into the services provided by the Diagnostic Laboratory staff as skills, training and equipment were acquired.

PERFORMANCE INDICATORS	 FISCAL YEAR.....		
	1968-69	1969-70	1970-71
Cost	$122,248	$128,867	$136,315
Performance:			
Number of autopsies	948	1,016	953
Number of bacteriology, pathology, parasitology and virology tests	4,773	9,376	9,354
Number of milk and milk products tests	26,406	25,335	24,269
Number of chemical tests	2,401	2,671	3,836
Number of serological tests	61,078	72,296	187,238

*See "Appendix B" in "Detailed Review of Programs".

PROGRAM -- DISEASE CONTROL

GOALS AND OBJECTIVES

The goal and objectives of the Disease Control Program are to safeguard the health of approximately 6 million head of Montana livestock and poultry from the introduction of infectious and contagious diseases; to control, and if possible, eradicate diseases of animals endemic in Montana; and prevent the transmission of diseases of animals to man.

*ACHIEVEMENTS

Revisions of the long-range brucellosis eradication program were activated to assure increased vigilance in locating the very few remaining infected herds, to increase protection against reintroduction and spread and to move Montana from a Modified Certified Brucellosis Area to a Certified Brucellosis-Free State. The results obtained have, by the end of the fiscal year, qualified fifteen western Montana counties as Certified Brucellosis-Free. Indications are that about thirty-two more counties will soon qualify.

All indications are that Montana swine are free of brucellosis. The proposal of states to not accept swine from other than officially Validated Brucellosis-Free swine states and areas has been reviewed with representatives of the Montana swine industry. They are requesting that a swine testing program be inaugurated to establish Montana as officially validated free of swine brucellosis.

The continuous efforts to prevent the reintroduction and reoccurrence of several animal diseases, which once caused great economic loss and endangered public health in Montana, were successful. Such diseases as cattle scabies, sheep scabies, hog cholera, foot-and-mouth disease, glanders, dourine, anthrax and Newcastle disease, each, at one time, a major control and eradication program in Montana, were not present. Continued freedom from these diseases brings an economic return that can't be measured.

Tuberculosis and brucellosis has been further reduced to a point that it is possible through continued application of the scientifically oriented eradication program, to completely eliminate these two once very costly diseases in the near future.

The application of a skunk reduction program around areas in which laboratory confirmed rabies infected animals are found appears to be maintaining wildlife rabies incidence to a very low level. Since the first report of rabies in skunks in Montana in 1964, with the application of the skunk reduction program, no cases of canine rabies or rabies in man has been reported.

The application of the present control program of infectious foot-rot in sheep in western Montana and lice in sheep in eastern Montana is just controlling the two diseases. The establishment of a systematic area inspection and mandatory treatment program would, in a very few years, eradicate these two problems.

The pullorum testing program conducted this year reveals that all poultry breeding

*See "Appendix C" in "Detailed Review of Programs".

flocks remain free of this disease which at one time was very costly to poultrymen and hatcherymen alike.

The application of a mastitis control program in dairy herds with cooperative dairymen continues to yield great economic returns to the dairyman through increased milk production and avoids the unnecessary loss sustained when abnormal milk, which includes milk from diseased udders, is prohibited from being sold for human consumption.

PERFORMANCE INDICATORS	 FISCAL YEAR.....		
	1968-69	1969-70	1970-71
Cost.....	$113,527	$112,422	$181,479
Performance:			
Animals inspected and/or tested.....	3,008,356	2,843,799	2,749,667
Animals imported.....	276,953	247,727	239,432
Number of animal diseases reported.....	75	74	71
Number of animals affected.....	36,560	37,267	40,744
Number of counties maintained as Modified Certified Brucellosis Areas.....	56	56	56
Number of counties declared as Certified Brucellosis-Free.....	-0-	-0-	15
Number of counties maintained as Modified-Accredited Tuberculosis Areas.....	56	56	56
Number of counties maintained as Hog Cholera-Free.....	56	56	56
Number of brucellosis quarantined herds on June 30th.....	9	13	11
Number of cattle brucellosis tested.....	128,343	163,570	242,890
Number of brucellosis reactors.....	341	507	451
Number of Validated Brucellosis-Free swine herds	15	15	19
Number of cattle tested for tuberculosis.....	16,809	23,122	21,743
Number of cattle tuberculosis reactors.....	1	-0-	1

PROGRAM -- DAIRY AND MILK INSPECTION

GOALS AND OBJECTIVES

The goal and objectives of the Dairy and Milk Inspection Program are:

1. Assist the dairymen to maintain disease-free dairy herds.

2. Assure Montana milk consumers a safe, wholesome fluid milk supply.

3. Maintain sanitation and facility standards acceptable to U. S. Public Health Service to assure acceptance of Montana produced and processed milk into interstate commerce.

*ACHIEVEMENTS

1. Not one single milk-borne disease outbreak from the consumption of milk or cream from Grade A licensed dairies or milk plants in Montana were reported this year.

2. All licensed milk plants and their dairy producers maintained acceptable sanitation and facility standards of the U. S. Public Health Service.

3. All licensed Grade A dairy herds remained free of tuberculosis and brucellosis. Mastitis did become a problem in a relatively few dairies, but active participation in a mastitis control program, in most instances, alleviated the problem.

PERFORMANCE INDICATORS	 FISCAL YEAR.....		
	1968-69	1969-70	1970-71
Cost.....	$49,609	$51,293	$54,546
Performance:			
Licensed retail raw dairies.....	9	9	8
Pounds of raw milk sold daily.....	3,510	4,955	2,650
Licensed milk plants.....	24	24	25
Pounds of pasteurized milk sold daily.....	629,690	624,640	675,040
Licensed plant-producer dairies.....	382	347	338
Total official inspections and laboratory tests.....	32,964	29,425	30,957

*See "Appendix D" in "Detailed Review of Programs".

PROGRAM -- MEAT INSPECTION

GOALS AND OBJECTIVES

The goal and objective of the Meat Inspection Program is to furnish and enforce a mandatory meat inspection program to very small, widely dispersed slaughtering and processing establishments that only slaughter and process 10% of the off-farm slaughtered animals in Montana (the amount not slaughtered and processed under federal meat inspection) that would be determined to be "equal to" the federal meat inspection by the U. S. Department of Agriculture, Consumer and Marketing Service as required by the "Wholesome Meat Act of 1967", Public Law 90-201.

*ACHIEVEMENTS

Official state meat inspection was maintained in fifty-six small establishments located throughout Montana. Federal law requires that meat and meat products in interstate commerce be slaughtered under federal meat inspection. During the fiscal year 90% of the animals slaughtered for human consumption in Montana were slaughtered and processed in nine federally inspected establishments in the state and only 10% were slaughtered and processed in fifty-six state-inspected establishments.

Federal law prohibits the interstate marketing of meat and meat products slaughtered and processed under state meat inspection eventhough the state meat inspection and the plant is USDA-certified as having meat inspection "equal to" federal inspection. Since state-inspected plants are required by federal law to maintain federal standards, surveys revealed that several plants, under Montana inspection, intended to apply for federal meat inspection to avoid the marketing limitation of their products imposed by federal law because they operated under USDA-approved state meat inspection. This would result in continual reduction of need for a state meat inspection program.

The maintenance of a USDA-approved state meat inspection program in Montana (as required by the Wholesome Meat Act of 1967) resulted in a duplication of administration, supervision, laboratory support, travel and training programs with that of the federal meat inspection program maintained in Montana. Means could not be found under the cooperative federal-state meat inspection agreement nor with federal meat inspection policies to maintain a state meat inspection program to avoid such expensive duplication.

The very low volume slaughtered and processed in state inspected plants would result in the cost of maintaining federally-approved state meat inspection to amount to $7.50 per head. Federal meat inspection is maintained on the national level (which includes all high volume plants) at a cost of approximately 50¢ per head.

All appropriations to fund state meat inspection for the next biennium were eliminated in all appropriation bills introduced in the House during the Regular and Extraordinary Sessions of the Forty-Second Legislature. Funds were not restored by any amendments originating in the House or the Senate.

*See "Appendix E" in "Detailed Review of Programs".

In accordance with the authority granted under Public Law 90-201, the USDA, Consumer and Marketing Service, Meat Inspection Division must enforce and maintain meat inspection in states which do not maintain a state-wide, mandatory meat inspection program. On April 28, 1971 the USDA, Consumer and Marketing Service took over the entire meat inspection program in Montana.

PERFORMANCE INDICATORS	FISCAL YEAR		
	1968-69	1969-70	1970-71
Cost	$142,712	$221,692	$232,269
Performance:			
Number of establishments under state inspection	29	54	56
Number of animals slaughtered under state inspection	53,528	51,532	52,761
Number of animals condemned	127	108	77
Pounds of meat processed under inspection	8,279,725	18,295,945	17,565,196
Number of official plant inspections	225	321	339

PROGRAM	FISCAL YEAR COSTS 1970-71	1969-70	Increase (Decrease)
Administration	$ 74,934	$ 65,894	$ 9,040
Diagnostic Laboratory	136,315	128,867	7,448
Disease Control	181,479	112,422	69,057
Dairy and Milk Inspection	54,546	51,293	3,253
Meat Inspection	232,269	221,692	10,577
TOTAL	$ 679,543	$ 580,168	$ 99,375

PROGRAM COST DETAIL

PROGRAM	1970-71FY TOTAL	PERSONAL SERVICES	OPERATING EXPENSES	CAPITAL	GRANTS & BENEFITS
Administration.....	$ 74,934	$ 48,635	$ 15,756	$ 543	$ 10,000
Diagnostic Laboratory.....	136,315	102,785	27,644	5,886	-0-
Disease Control.....	181,479	158,478	18,120	4,813	68
Dairy and Milk Inspection...	54,546	42,402	12,144	-0-	-0-
Meat Inspection.....	232,269	202,518	29,751	-0-	-0-
TOTAL.....	$679,543	$554,818	$103,415	$ 11,242	$ 10,068

SOURCE OF FUNDING

General Fund.....	$356,554
Earmarked Revenue Fund Livestock Sanitary Board Account.....	192,673
Federal & Private Revenue Fund Livestock Sanitary Board Account.....	130.316
TOTAL.....	$679,543

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TABLE I

MONTANA LIVESTOCK SANITARY BOARD MEETINGS

July 13 and 14, 1970	Helena
August 17, 1970	Kalispell
October 11, 1970	Billings
December 8, 1970	Billings
January 18 and 19, 1971	Helena
March 5 and 6, 1971	Helena
May 19, 20 and 21, 1971	Billings

TABLE II

REGULATIONS ADOPTED, REVISED AND RESCINDED

Adopted:

Chapter 22, Regulations 2201 through 2205, "Identification for Intrastate Movement of Cattle"; effective May 21, 1971.

Revised:

Regulation 307, "Breeding Animals Sold, Offered for Sale, or Presented for Show and Exhibition to be Free of Brucellosis"; effective September 1, 1970 and October 11, 1970.

Regulation 301, H, 1 - Brucellosis definitions; effective September 1, 1970.

Regulation 309, G, 2a and 309, G, 3a - Certified Brucellosis-Free Bovine Herds; effective September 1, 1970.

Regulation 1515, I, B and C, and 1515, II, B - Importation of Cattle; effective September 17, 1971.

Regulation 3804, Approved Course in Artificial Insemination; effective March 6, 1971.

Regulation 3805, Examination for a License; effective March 6, 1971.

Regulation 1515, Importation of Cattle; effective May 21, 1971.

Rescinded:

Regulation 307, Paragraph B, Parts 1 through 7, "Breeding Animals Sold, Offered for Sale or Presented for Show and Exhibition to be Free of Brucellosis"; effective March 7, 1971.

TABLE III

LICENSES AND PERMITS ISSUED

Licenses

Artificial Inseminators	482	
Dairies:		
Producer	338	
Retail Raw	8	
Garbage Feeding	6	
Meat Depots	6	
Meat Packing Houses	79	
Milk Plants	25	
Rendering Plants	5	
Slaughterhouses	52	
Total Licenses Issued		1,001

Permits

Milk Distributors	118	
Poultry Shipping (Chicks and hatching eggs)	50	
Semen for Artificial Insemination	792	
Total Permits Issued		960
TOTAL LICENSES AND PERMITS ISSUED		1,961

*License fees collected are submitted to the State of Montana General Fund.

TABLE I

SUMMARY OF LABORATORY TESTS BY TYPE OF TEST

TYPE OF TEST			NUMBER
Autopsies		953	
*Bacteriology & Chemical Tests on Milk and Milk Products			
In compliance	18,792		
Not in compliance	1,240		
Total		20,032	
Bacteriology, Parasitology, Pathology and Virology:			
Positive	5,286		
Negative	2,815		
Inconclusive	1,265		
Total		9,366	
Chemical:			
Blood	1,055		
Drug detection on race horses	519		
Meat	1,236		
Nitrate	136		
Pesticide residue	205		
Toxicology	532		
Water	151		
Miscellaneous	2		
Total		3,836	
Serology (Excluding Card & Field Tests)		142,456	
SUB-TOTAL			176,643
P L U S :			
Serology - Card & Field Tests:			
Brucellosis tests - Cattle		41,847	
Brucellosis tests - Swine		1,397	
Pullorum tests - Chickens		5,775	
SUB-TOTAL			49,019
TOTAL LABORATORY TESTS BY TYPE OF TEST			225,662

*Includes Wisconsin Mastitis tests.

TABLE II

SUMMARY OF LABORATORY TESTS BY SPECIE, PRODUCT OR MATERIAL

SPECIE, PRODUCT OR MATERIAL	NUMBER	PERCENT
Cattle	187,111	82.92
Milk and milk products	24,269	10.75
Chickens	5,927	2.63
Swine	3,215	1.42
Meat and meat products	1,236	.55
Horses	858	.38
Dogs	675	.30
Sheep	358	.16
Meat meal	351	.16
Cats	315	.14
Water	164	.07
Deer	118	.05
Skunks	70	.03
Rabbits	47	.02
Bats	43	.02
Mice	39	.02
Ducks	36	.02
Goats	30	.01
Bears	26	.01
Buffalo	24	.01
Chinchillas	20	.01
Rats	18	
Raccoons	16	
Guinea pigs	15	
Gerbils	14	
Coyotes	13	
Geese	13	
Squirrels	11	
Mink	10	
Hamsters	8	
Muskrats	8	.32
Foxes	8	
Gophers	7	
Badgers	6	
Grouse	5	
Peacocks	5	
Weasels	5	
Mountain sheep	4	
Moles	3	
Monkeys	3	
Miscellaneous	558	
TOTAL LABORATORY TESTS BY SPECIE, PRODUCT OR MATERIAL	225,662	100.00

TABLE III

AUTOPSIES PERFORMED REPORT

SPECIE	NUMBER
Badgers	5
Bats	19
Bear	1
Bobcat	1
Cats	60
Cattle	119
Chickens	65
Chinchillas	5
Chipmunks	3
Coyotes	6
Crow	1
Deer	2
Dogs	46
Ducks	18
Fetuses:	
Bovine	175
Equine	1
Ovine	1
Foxes	4
Geese	3
Gerbils	2
Gophers	4
Grizzly bear	1
Grouse	2
Guinea pigs	5
Hamsters	8
Horses	3
Mice	19
Mink	3
Mole	1
Monkey	1
Muskrats	4
Parakeets	2
Peacocks	2
Pheasants	2
Pigeon	1
Rabbits	15
Raccoons	8
Rats	9
Sheep	58
Skunks	34
Squirrels	5
Swine	226
Weasels	3
TOTAL AUTOPSIES PERFORMED	953

TABLE IV

BACTERIOLOGY AND CHEMICAL TESTS ON MILK AND MILK PRODUCTS

TYPE OF TEST	IN COMPLIANCE	NOT IN COMPLIANCE
BACTERIOLOGY TESTS		
Buttermilk:		
Antibiotic detection tests	134	
Coliform counts	122	12
Cottage Cheese:		
Antibiotic detection tests	40	
Coliform counts	33	7
Cream:		
Antibiotic detection tests	430	
Bacterial counts	397	29
Brucella abortus ring tests	3	
Coliform counts	417	14
Eggnog:		
Antibiotic detection tests	2	
Bacterial counts	2	
Coliform counts	1	1
Milk:		
Antibiotic detection tests	3,787	6
Bacterial counts	3,525	286
Brucella abortus ring tests	2,641	
Coliform counts	3,302	525
Yogurt & Miscellaneous (Water & Swab):		
Antibiotic detection tests	3	
Bacterial counts	3	
Coliform counts	4	
TOTAL BACTERIOLOGY TESTS	14,846	880
CHEMICAL TESTS		
Buttermilk	132	2
Cottage Cheese	40	
Cream	473	19

Table iv (Continued)

Bacteriology and Chemical Tests on Milk and Milk Products (Continued)

TYPE OF TEST	IN COMPLIANCE	NOT IN COMPLIANCE
Chemical Tests (Continued)		
Eggnog	2	
Milk:		
General chemical	1,127	122
*Wisconsin Mastitis tests	2,233	216
Yogurt	2	
TOTAL CHEMICAL TESTS	3,946	360
TOTAL BACTERIOLOGY AND CHEMICAL TESTS ON MILK AND MILK PRODUCTS	18,792	1,240

*

Values in mms	5	10	15	16	17	18	19	20	21	22	23	24	25	30
Samples tested	383	774	605	99	166	109	97	61	36	25	27	22	35	12

TABLE V

BACTERIOLOGY, PARASITOLOGY, PATHOLOGY AND VIROLOGY REPORT

FINDING	SPECIMEN AND NUMBER																			
POSITIVE	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Abscess, cerebral																	1			
" , cervical																	1			
" , lung			1																	
" , myocardial			1																	
Acid-fast organisms			2	3																
Adamantinoma		1																		
Adenocarcinoma			1				2													
Adenoma, adrenal							2													
Aerobacter aerogenes			15														10	2		
" " , Group C				1						2		1								
Aerobacter sp																	1			
Air sacculitis																			Duck	1
Alcaligenes faecalis										1										
" marshallii										1										
" viscosus			1																	
Alternaria sp		1	1				1			1									Hair	1
Amyloidosis, renal							1													
Anaplasma bodies			1																	
" sp			2																	
Ascaris equorum										2										
" lumbricoides																	1			
" sp																	1			
" suis																	1			
" vitulorum															1					
Aspergillus glaucus							1													
" sp			12				1										2			
Astrocytoma							1													
Atelectasis																	1			

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
Positive	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Atrophic rhinitis.....																	16			
Autolysis.....			5				1										1			
Bacillus cereus.....			12	1			2			1							2			
" " , var. mycoides.....																	1			
Bacillus polymyxa.....			1				1							1			1			
" sp.....		5	663	4	3	1	33		1	27		3		6	41		101	1	Blue grouse	1
"																			Bottle	1
"																			Dirt	1
"																			Duck	2
"																			Feed	1
"																			Goose	2
"																			Mink	2
"																			Monkey	1
"																			Muscle	1
"																			Peacock	1
"																			Rat	2
"																			Squirrel	1
"																			Tuna fish	1
Blastomyces sp.....																	1			
Bordetella bronchiseptica																	2			
" parapertussis.			1																	
Bovine virus diarrhea....			119																	
Brain, normal.....			3																	
Brevibacterium maris.....			1																	
Brisket disease.....			1																	
Bronchopneumonia.....																	1			
Brucella melitensis.....										2										
Bruise.....																			Antelope	1

Table v (Continued)

Bacteriology, Parasitolosy, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
Positive	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Calcium salts										1										
Cancer eye								1												
Candida albicans							2										1		Goose	1
" guilliermondi																	1			
" parapsilosis			3							1										
" sp			14	1			2			2					1		4			
Capillaria sp			1																	
Carcinoma		1					2										1			
" , squamous cell.			1				2			1										
" , stomach							1													
Cellulomonas acidula							1													
Cerebellar hypoplasia		1																		
" malacia							1													
Choriomeningitis															1					
Circulatory failure			1																	
Citrobacter sp				1						1		2					3			
Cladosporium sp							1										1			
Cleft palate																	1			
Clostridium bifermentans			2																	
" capitovale			4												1					
" chauvoei			15														1			
" fallax			2																	
" flabelliferum			2																	
" hemolyticum			6																	
" innocuum			1																	
" lentoputrescens			1																	
" novyi															1					
" pasteurianum			2																	
" perfringens			95												3		1			

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
Positive	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Clostridium perfringens, Type C			8												1					
Clostridium perfringens, Type E			1												1					
Clostridium rods			1																	
" septicum			7												1					
" sordellii			24												1					
" sp			2																	
" sphenoides			1																	
" tertium			2																	
" tetanomorphum			2		1															
Cnemidocoptes mutans																			Goose	1
Coccidia oocysts															1					
" sp			1																	
Coccus sp			1																	
Coliforms													1					2		
Complete blood count		29	11				67			21					2	1	9			
Congenital hypomyelinogenesis			1																	
Congestion, lung															1					
Conium maculatum																			Weed	1
Conjunctivitis		1																		
Corynebacterium acnes							1							1			1			
" agropyri			1												1		1			
" avidum																	1			
" bovis			19	1													12			
" enzymicum			2														3			
" equi			2														5			
" hemolyticum			2																	
" hoagii			1														2			

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
Positive	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Corynebacterium hofmanni.																	1			
" kutscheri			1																	
" murisepticum		1	3							1				1			1		Duck	1
paurometabolum			1																	
" phocae.....			2																	
Corynebacterium pseudo-diphtheriticum.....			4							1							5			
Corynebacterium pseudo-tuberculosis.....			2														1			
Corynebacterium pyogenes.																	7			
" renale...			3												2		3			
" suis.....			1																	
" sp.....			20											1	3		1			
" striatum.			4														3		Guinea pig	1
" "																			Mink	1
" ulcerans.			1																	
Cryptococcus neoformans..		1																		
Cystadenoma.....							1													
Cyst, epidermal.....							7													
" , tapeworm.....						1														
Cysticercus tenuicollis..						1														
Damalinia ovis.....															5					
Dermacenter albipictus...										1										
Dermatitis.....			2														1			
Dermatobia hominis.....		1																		
Dietetica hepatica.....																	1			
Differential blood count.		18	9				34			10						1				
Distemper.....		1					7													
Dysentery.....																	4			

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
Positive	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Edema, gut.....																	1			
" , intra-alveloar....							1													
" , pulmonary.....			1												1		1			
Eimeria ahsata.....															2					
" arloingi.....															3					
" auburnensis.....			1																	
" bovis.....			79																	
" brasiliensis.....			10																	
" bukidnonensis....			8																	
" canadensis.....			11																	
" crandallis.....															3					
" faurei.....															2					
" granulosa.....															4					
" intricata.....															1					
" ninakohlyakimovae															4					
" parva.....															2					
" sp.....			1											1	1		1		Goose	1
" wyomingensis.....			15																	
" zurnii.....			24																	
Emaciation.....						1														
Encephalitis.....			1				1													
Enteritis.....			1												1					
Eperythrozoon sp.....																	1			
Epidermitis, exudative...																	1			
Epidermophyton floccosum.							1													
Erysipelothrix insidiosa.			1												1		35			
" sp.....																	1			
Escherichia coli.....		1	460	6	1	1	7		1	11		6		5	23		133		Duck	3

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
Positive	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Escherichia coli.....																			Goose	1
" "																			Grizzly bear	1
" "																			Grouse	2
" "																			Guinea pig	1
" "																			Mink	1
" "																			Mouse	1
" "																			Peacock	1
" "																			Savortex	1
" "																			Water	4
Fibroma.....							2			2				1						
Fibropapilloma.....			1																	
Fibrosarcoma.....							2													
Fibrosis.....			2							1										
Fungus.....			1																	
Fusarium sp.....			1				1													
Gaffkya homari.....																	1			
" sp.....																	2			
Gastritis, hemorrhagic...																	1			
" , necrotic.....																	1			
Glucose, blood.....							2													
Granuloma.....										1										
Greasy pig disease.....																	1			
Gymnosperm, veg. origin..																	1			
Haematopinus sp.....										1										
Heart failure.....			2				2										1			
" , normal.....			1																	
Hemangioma.....							1													
Hemangiosarcinoma.....							3													

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

Positive	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Helminthosporium sp.....			1																	
Hematocrit.....		16	10				33			10						1	3			
Hemoglobin.....		16	10				33			10						1	1			
Hemorrhage.....			2	1											1				Bird	1
" , cerebral.....		1	1														1			
" , intra-alveolar							1													
Hepatitis.....			2																	
Hepatosis dietectica.....																	1			
Hermaphroditism.....							1													
Hernia.....																	1			
Heterakis sp.....																			Goose	1
Histiocytoma.....							6													
Histoplasma sp.....										1										
Hodgkin's Disease.....							1													
Hookworms.....							1													
Hormodendrum sp.....		1																		
Hydronephrosis.....							1													
Hyperkeratosis.....							1													
Hypopion.....																			Rat	1
Infectious bovine rhino-tracheitis.....			41																	
Infectious hepatitis.....							1													
Inflammation.....							1			3										
Isospora sp.....							1													
Jejunum, obstruction of..			1																	
Kidney failure.....										1										
Lactobacillus acidophilus			1																	
" casei.....			1																	
" sp.....			83				2			4					3		11	1	Bottle	1
" "																			Buttermilk	1

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
Positive	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Leeches																			Duck	1
Leptospira sp			5				3													
Leukosis				1																
Lice, sucking			1																	
Linognathus vituli			1																	
Lipoma			1				3													
Liposarcoma							1													
Liver, autolyzed																	1			
" , fat degeneration															1					
" , normal			1																	
" , reticulated								1												
Lumbricoides ascaris																	1			
Lungworms			3																	
Lymphadenitis			1																	
Lymph node, normal		1																		
Lymphoma, follicular		1																		
Lymphoblastoma																	1			
Lymphocytoma		1																		
Lymphosarcoma		3	1							1										
Maggot, rat-tail			1																	
Malignant catarrhal fever			2																	
Mange																	1			
Marek's Disease				1															Bird	1
Mastocytoma							4													
Melanoma			1							2										
" , malignant							1			1										
Meningitis			1														1			
Meningoencephalitis			4														2			

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
Positive	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Meningoencephalitis, bacterial										1										
suppurative			1																	
Mesothelioma			1																	
Microbacterium flavum																			Duck	1
" lacticum							1													
Microsporum sp			1																	
Mold			14														2			
Moniezia benedeni			4																	
" sp			28												3					
Monilia sp							1													
Mucor sp			8				1			3							3		Corn	1
Mucosal disease			1																	
Mulberry heart disease																	1			
Mycobacterium sp				2																
Myocardial degeneration							1													
Necrosis			10				2										6			
Nematodirus sp			51												9					
Neoplasm			1				1													
Nephritis		1	3				1										1			
Nephrosis		2	8			1	5								1		3			
Neurofibroma							1													
Neutrophils, periportal infiltration															1					
Nocardia sp		1	30	1			1			3					1		3		Monkey	1
" "																			Mt. sheep	1
Nutritional deficiency				1											1		1			
Osteomyelitis														1						
Osteoporosis			1																	

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
Positive	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Ostertagia sp.....			8												1					
Pancreas, normal.....							1													
Pancreatitis, acute necrotizing.....							2													
Pancreatitis, chronic fibrosing.....							1													
Panleucopenia.....																			Bobcat	1
Papilloma.....							1													
Parainfluenza$_3$.....			37																	
Pasteurella hemolytica...		1	13		1					1					3		4			
" multocida....		1	1														2			
" pestis.....			1																	
" pfaffii.....																			Mink	1
" pneumotropica			1																Mouse	1
" pseudotuberculosis			1																	
Penicillium sp.....		1	5														1		Duck	1
Periarteritis.....			1																	
Pericarditis, chronic....						1														
Peritonitis.....			2																	
Pilobezoar (hair balls)..			1																	
Placentitis.....			2																	
Pneumonia.....		3	4				1													
Poison:																				
Lead.....			1												1					
Locoweed.....															1					
Salt.....																	1			
Polioencephalomalacia....			13												2					
Polyp, inflammatory.....			1																	

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
Positive	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Pregnancy disease															1					
Proteus mirabilis			20	6	3		5					3		3	1		50		Goose	1
" "																			Mallard	1
" "																			Peacock	1
" "																			Rat	1
" morganii			2							1							5			
" rettgeri			2									1					4		Guinea pig	1
" sp			1									37								
" vulgaris			15														28		Mallard	1
Providence sp, Group A																	1			
" " , " B																	2			
" "			1														2			
Pseudohermophroditism							1													
Pseudomonas aeruginosa			3				1													
" pulida																	1			
" reptilivorous			1																	
" sp			13		1										2		5			
Pulmonary edema			2				1													
" emphysema			1																	
" neoplasm																			Rat	1
" phycomycosis			1																	
Pyometra																	1			
Rabies	1															1				
Red blood count		8	3				25			3						1	2			
Rhizopus niger sp																			Hair	1
" sp			1																	
Rickets																			Guinea pig	1
Rumen, ruptured															1					

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING Positive	SPECIMEN AND NUMBER																			
	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Sarcocystic rileyi.....												1							Duck	2
Salmonella arizona.....												1								
" binza.....																	1			
" heidelberg....																			Turtle	1
" newport.....												2								
" montevideo....			1							2		4					1			
" sp.....			5							1					1					
" tennessee.....																				
" typhimurium...										3										
Sarcina sp.....							1													
Sarcoid.....							1													
Sarcoma, malignant.....			1																	
" , osteogenic.....																				
Sarcosporidiosis.....		1																		
Scopulariopsis brevicaulis			1							1							1			
" sp.....			1																	
Scours.....			1																	
Septicemia, bacterial....			1																	
" , neonatal.....																	1			
Spleen, congestion of....										1										
Spinal cord, severed.....																				
Staphylococcus aureus....		11	599	8	1		21		2	19				2	9		117		Antelope	1
" "																			Duck	6
" "																			Goose	2
" "																			Guinea pig	1
" "																			Mink	2
" "																			Monkey	1
" "																			Mouse	1

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
Positive	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Staphylococcus aureus....																		1	Muscle	1
" "																			Tuna fish	1
" epidermidis		1	11	1						3					2		9			
" sp.....			47												2					
Streptococcus acidominimus		1	7				1			1	1						2			
" agalactiae.		1	1														1			
" anginosus..			4	1						1					1		11			
" bovis.....			23				1			2							5			
" cremoris...																	4			
" durans.....			2														1			
" dysgalactiae			1							1										
" equi.....										1							1		Grizzly bear	1
" equinus.....																	2			
" equisimilis.			1														1			
" faecalis....			19	3			2			6					2		18		Guinea pig	1
" lactis.....			3							1							1			
" mitis.....			4				1			1							12			
" pyogenes....																	1			
" salivarious.																	1			
" sanquis.....			6				1										7			
" sp.....			35				2			2					1		2	1	Goose	1
" uberis.....			3														1			
" zooepidemicus										2										
Streptomyces sp.....			8																	
Stress syndrome.....																	1			
Strongylus equinus.....										3										
" papillosus....			1																	
" sp.....			1							32							1			

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

Positive	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Thrombo embolic meningoencephalitis			3																	
Thrombus										1										
Tissue, normal			1																	
Tonsillitis							1													
Toxic material, ingestion			1																	
Toxocara canis							2													
" cati (identification)																			Worm	1
Trauma		1					1										1			
Trichophyton sp							1													
" tonsurans			1																	
Trichostrongylus sp			148												10				Mt. sheep	1
Trichuris sp			1														1			
" suis																	1			
Tuberculosis				2																
Tumor, benign							2													
" , mammary							1													
Ulcer, abomasal			1			1														
Urinalysis							2													
Vas deferens, sections			1																	
Vibrio bubulus																				
" fetus, var. intestinalis			1												2					
Vibrio fetus, var. venerealis			22																	
Vibrio sp			3												1					
Virus pig pneumonia																	10			
Vitamin deficiency																			Mallard	1

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
Positive	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Western equine encephalitis										1										
White blood count		16	10				32			9						1	2			
Worms			4												1					
" , blood																			Water trough	1
" , mature			4							1										
Yeast			4																	
TOTAL POSITIVE FINDINGS	1	152	3244	46	11	8	420	2	4	233	1	61	1	22	182	7	775	8	Various	93
NEGATIVE																				
Acid-fast bacilli		1	2	5															Monkey	1
Actinomyces sp							1													
Anaplasma sp			8																	
Atrophic rhinitis																	28			
Bacillus anthracis			1																	
Bluetongue			3																	
Bovine virus diarrhea			232																	
Brucella sp			4							3										
Clostridium hemolyticum			1																	
" sp			70				1			1					5		2		Duck	1
" "																			Fish	1
" "																			Guinea pig	1
" "																			Mink	1
" "																			Tuna fish	1
Coccidia sp			2														1			

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
Negative	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Colorado tick fever.....										1										
Corynebacterium sp.....										3										
Ectoparasites,.....			1																	
Encephalitis, California.										1										
Encephalomyelitis, St. Louis Equine.....										1										
Encephalomyelitis, Western Equine.....										1										
Enterotoxemia.....			75							1					11					
Enzootic Abortion of Ewes															1					
" Bovine Abortion.			10																	
Eperythrozoon sp.....																	3			
Eperythrozoonosis.....																	1			
Erysipelothrix insidiosa.																	7			
" sp.....															1		80			
Escherichia coli.....			24		1					1					1		5	2		
Fluke egg.....			2																	
Fungi.....		2	2																	
Growth.....		3	161	7			6			16	1	83			7		33		Fish	1
"																			Guniea pig	2
"																			Mouse	1
"																			Vitamins A,D,E	1
Haemobartonella sp.....		2																		
Hemophilus sp.....			8												1		2			
Infection, viral.....			2																	
Infectious Bovine Rhinotracheitis.....			338																	
Leptospira sp.....			58				5								1		32		Rat	1
Lesion.....		1		3																

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
Negative	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Lesion, gross			1	1																
" , microscopic							1								1					
Leukosis				1																
Listeria sp			6												1				Mouse	1
Lungworms		1	23			2				1										
Mange mites			2																	
Mites															1					
Mold		1	1				1										2			
Mycobacterium sp				1																
Ova		2	4		1		7		1	3							5			
Parainfluenza$_3$			75																	
Parasite			3	1			1													
" , external							1													
Pasteurella sp			2																	
Pathogenic bacteria															1					
Providence sp										1										
Pseudomonas sp										1										
Psittacosis																				
Rabies	23	65	15				39		6					6		29			Bird	1
"																			Badger	1
"																			Bear	1
"																			Chipmunk	1
"																			Coyote	7
"																			Fox	4
"																			Gerbil	12
"																			Gopher	3
"																			Guinea pig	2
"																			Mole	2
"																			Mouse	18
"																			Muskrat	4

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
Negative	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Rabies.....																			Raccoon	8
"																			Rat	5
"																			Squirrel	5
"																			Weasel	2
Salmonella sp.....		1	171	12	2		6		1	2		207		3	5		84	2	Bird	1
"																			Duck	2
"																			Feed	1
"																			Fish	1
"																			Grizzly bear	1
"																			Grouse	2
"																			Guinea pig	1
"																			Mink	1
"																			Non-fat dry milk	1
"																			Savortex	1
Trichomonas fetus.....			44																	
" sp.....			11																	
Vibrio fetus.....			201												16					
" sp.....			171												16		1			
Virus isolation.....			4																	
Virus Pig Pneumonia.....																	37			
White Muscle Disease.....			1																	
TOTAL NEGATIVE FINDINGS..	23	79	1739	31	4	2	69	-0-	8	37	1	290	-0-	9	69	29	323	4	Various	101

Table v (Continued)

Bacteriology, Parasitology, Pathology and Virology Report (Continued)

FINDING	SPECIMEN AND NUMBER																			
INCONCLUSIVE	BAT	CAT	CATTLE	CHICKEN	CHINCHILLA	DEER	DOG	ELK	HAMSTER	HORSE	MEAT	MEAT MEAL	MILK	RABBIT	SHEEP	SKUNK	SWINE	WATER	MISCELLANEOUS Specimen	MISCELLANEOUS No.
Bovine Virus Diarrhea....			564					1												
Enterotoxemia.....			6														1			
Infectious Bovine Rhinotracheitis.....			626					1												
Parainfluenza$_3$.....			66																	
TOTAL INCONCLUSIVE FINDINGS.....	-0-	-0-	1262	-0-	-0-	-0-	-0-	2	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	1	-0-	Various	-0-

TABLE VI

CHEMICAL REPORT

BLOOD ANALYSES	CALCIUM			CAROTENE			MAGNESIUM			PHOSPHORUS			VITAMIN A		
	High	Norm.	Low	High	Norm.	Low	High	Norm.	Low	High	Norm.	Low	High	Norm.	Low
Avian			1							1					
Bovine	23	121	47		227	25	5	40	8	42	62	70	101	111	46
Equine	2	3	4	1	3	2		1		3	4	1	1	4	1
Ovine	2		5	1	3		2			1	2	4		2	2
Porcine	7	6	15	1	6	1		1		15	9			4	6
TOTAL BLOOD ANALYSES	34	130	72	3	239	28	7	42	8	62	77	75	102	121	55

DRUG DETECTION TESTS ON RACE HORSES	POSITIVE	SUSPICIOUS	NEGATIVE
Saliva			2
Urine	50		467
TOTAL DRUG DETECTION TESTS ON RACE HORSES	50	-0-	469

Table vi (Continued)

Chemical Report (Continued)

MEAT ANALYSES

	TOTAL PROTEIN	MEAT PROTEIN	SOY PROTEIN	WATER	ADDED WATER	PRESER-VATIVES	NON - FAT DRY MILK	FAT	CONTAMI-NATION	NITRATE NITRITE	SALT	ASCORBATE PHOSPHATES	CEREAL
Bacon	1	1		1	1					1	1		
Beef patties	11	11	5	11	10	1		11					2
Bologna	33	33	5	33	34		30	20		1			9
Braunschweiger	3	3	1	3	3		2	2					1
Corned beef	2	2		2	2					2	2		
Frankfurters	6	6	2	6	6		5	6					
Ham	10	5		10	10					9	9		
Hamburger	21	21	10	26	21	15	5	29	2				13
Meat patties	7	7	3	7	7			2					5
Salami	9	9	2	9	9		8	2					4
Sausage	52	41	8	51	49	12	8	40					16
Seasonings & cures	2						1		84	61		27	
Thuringer	1	1	1	1	1		1						1
Wieners	5	5		5	5		5	4		2			1
Miscellaneous	5	5		5	5	6			62	13	5		
TOTAL MEAT ANALYSES	168	150	37	170	163	34	65	116	148	89	17	27	52

NITRATE ANALYSES

	FIT	QUESTIONABLE	UNFIT
Feed	9	1	
Water	71	37	18
TOTAL NITRATE ANALYSES	80	38	18

Table vi (Continued)

Chemical Report (Continued)

PESTICIDE RESIDUE ANALYSES

	POSITIVE	TRACE	NEGATIVE
Fat:			
Bear			6
Dog	1		
Heron	2		
Milk	19		177
TOTAL PESTICIDE RESIDUE ANALYSES	22	-0-	183

TOXICOLOGY ANALYSES

	ARSENIC		COPPER		CYANIDE		LEAD		MERCURY		STRYCHNINE	
	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.
Avian:												
Crop contents											1	
Gizzard contents												1
Intestine contents		2						2				
Liver							2					
Bovine:												
Abscesses	1						1					
Blood							2	2				
Kidney	1	14					23	10				
Liver		26	1	4			41	16				
Stomach contents	7	55				2	6	56	1	1		2
Canine:												
Kidney		1					3					
Liver	1	2					5	1				
Stomach contents	1	19				1		16			16	41
Urine		2						2				

Table vi (Continued)

Chemical Report (Continued)

Toxicology Analyses (Continued)	ARSENIC		COPPER		CYANIDE		LEAD		MERCURY		STRYCHNINE	
	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.
Equine:												
Blood							1					
Liver		1					1					
Stomach contents		3						3				
Feline:												
Stomach contents		4						4			1	10
Vomitus		1						1				1
Ovine:												
Kidney		1						2				
Liver							2	1				
Stomach contents	1	3						3				
Porcine:												
Kidney		2					3					
Liver		6					2	2				
Stomach contents		10						7				1
Other:												
Bone												1
Calf milk replacer		1				1						1
Canned ham												1
Dirt		2						2				
Feed	2	6						9				4
Grain												1
Grasshopper bait, peat & hay	1	4						4				
Hamburger												1
Hamster		1						1				1
Meat		2						1				3
Metal							1					

Table vi (Continued)

Chemical Report (Continued)

Toxicology Analyses (Continued)	ARSENIC		COPPER		CYANIDE		LEAD		MERCURY		STRYCHNINE	
	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.
Other: (Continued)												
Mud and packing material		2						2				
Salt		2						2				
Water		1						3				
Weed								1				
TOTAL TOXICOLOGY ANALYSES	15	173	1	4	-0-	4	93	153	1	1	18	69

WATER ANALYSES	FIT	QUESTIONABLE	UNFIT
Mineral content for livestock consumption	99	21	31
TOTAL WATER ANALYSES	99	21	31

MISCELLANEOUS ANALYSES

Dried milk for lactose 2

TOTAL ALL CHEMICAL ANALYSES 3,836

TABLE VII

SEROLOGY REPORT

TEST	SPECIE	POSITIVE	NEGATIVE	SUSPICIOUS	TOTAL
Anaplasma CF	Cattle	152	6,396	378	6,926
" "	Elk		1		1
Brucella abortus agglutination	Bear		10		10
" " "	Bison		23		23
" " "	Cattalo		1		1
" " "	Cattle	254	124,626	1,931	126,811
" " " card test (field)	"	166	40,839	3	41,008
" " " field test	"		832	7	839
" " " seminal plasma	"		59		59
" " "	Deer		64		64
" " "	Dog		2		2
" " "	Elk		1		1
" " "	Goat		30		30
" " "	Horse	4	13	8	25
" " "	Moose		1		1
" " "	Mountain sheep		2		2
" " "	Mule		1		1
" " "	Sheep		9		9
" " "	Swine		276		276
" " " card test (field)	"		1,396		1,396
" " " field test	"		1		1
" " " ring test	Cream		3,633	17	3,650
" " " " "	Milk		586	1	587
Leptospira canicola agglutination	Cattle		4	1	5
" " "	Dog		8	1	9
" " "	Swine			1	1
" grippo-typhosa agglutination	Cattle	12	677	53	742
" " "	Swine		24	1	25
" hardjo agglutination	Cattle	12	679	54	745
" " "	Swine		24	1	25
" icterohemorrhagia agglutination	Cattle		4	1	5
" " "	Dog		6	3	9
" " "	Swine		1	1	2
" pomona agglutination	Bear		10		10

Table vii (Continued)

Serology Report (Continued)

TEST	SPECIE	POSITIVE	NEGATIVE	SUSPICIOUS	TOTAL
Leptospira pomona agglutination	Cattle	103	1,881	243	2,227
" " "	Deer		42		42
" " "	Dog		8	1	9
" " "	Elk		1		1
" " "	Horse		47	11	58
" " "	Mountain sheep		2		2
" " "	Moose			1	1
" " "	Sheep		1		1
" " "	Swine		57	1	58
Salmonella pullorum agglutination field test	Chicken	8	5,767		5,775
TOTAL SEROLOGY TESTS		711	188,045	2,719	191,475

TABLE I

OFFICIAL ANIMAL INSPECTIONS REPORT

SPECIE	NUMBER INSPECTED
Cattle	
Inspected for interstate shipment	778,631
Inspected at livestock auction markets	886,236
Backtagged	186,191
Bled for brucellosis tests	83,104
Tested for tuberculosis	21,743
Miscellaneous inspections	18,965
Total Cattle	1,974,870
Horses	
Inspected for interstate shipment	2,503
Inspected at livestock auction markets	5,256
Miscellaneous inspections	20
Total Horses	7,779
Sheep	
Inspected for interstate shipment	317,078
Inspected at livestock auction markets	202,913
Miscellaneous inspections	31,823
Total Sheep	551,814
Swine	
Inspected for interstate shipment	1,299
Inspected at livestock auction markets	196,591
Miscellaneous inspections	3,562
Total Swine	201,452
Poultry	
Inspected for interstate shipment	2
Miscellaneous inspections	371
Total Poultry	373
Dogs and Miscellaneous Animals	
Inspected for interstate shipment	12,358
Miscellaneous inspections	1,021
Total Dogs and Miscellaneous Animals	13,379
TOTAL OFFICIAL ANIMAL INSPECTIONS	2,749,667

TABLE II

ANIMALS IMPORTED INTO MONTANA

POINT OF ORIGIN	CATTLE	HORSES	SHEEP	SWINE	POULTRY	DOGS & MISC. ANIMALS	TOTAL
Alabama.....						7	7
Alaska.....	3					70	73
Arizona.....	151	106				23	280
Arkansas.....	230	10				13	253
California.....	1,442	144				28	1,614
Colorado.....	5,822	251	938			65	7,076
Connecticut....		2					2
Florida.....	179	5				18	202
Georgia.....		1				5	6
Idaho.....	15,564	119	5,373	1,434		37	22,527
Illinois.....	50	4				14	68
Indiana.....	2		1	1		4	8
Iowa.....	3,437	45		30,428		15	33,925
Kansas.....	313	6				17	336
Kentucky.....	1	3				2	6
Maine.....		1					1
Maryland.....		13		1			14
Massachusetts..	3						3
Michigan.....	9	6				6	21
Minnesota.....	1,364	19		6,632		43	8,058
Mississippi....	118			1		7	126
Missouri.....	217	5		7		19	248
Nebraska.....	1,244	62		12,871		27	14,204
Nevada.....	202	45				13	260
New Jersey.....	13	1					14
New Mexico.....	93	17				8	118
New York.....	93	2					95
North Carolina.						7	7
North Dakota...	14,738	117	12,073	3,734		13	30,675
Ohio.....	12	2		2		5	21
Oklahoma.....	384	23				12	419
Oregon.....	408	61	327			67	863
Pennsylvania...	151			2			153
South Carolina.						1	1
South Dakota...	9,126	100	10,340	35,829	150	11	55,556
Tennessee.....						6	6
Texas.....	13,633	48	1,754	2		26	15,463
Utah.....	397	89	81	12		34	613
Vermont.....						1	1
Virginia.....	34						34
Washington.....	2,342	149	120	371		118	3,100
Wisconsin.....	2,048	8				20	2,076
Wyoming.....	15,159	252	6,331	393		30	22,165
Canada.....	3,141	1,278	882	5,287	3,914	3,793	18,295
Mexico.....	436	3					439
TOTAL.....	92,559	2,997	38,220	97,007	4,064	4,585	239,432

TABLE III

OFFICIAL INSPECTIONS MADE AT MONTANA LIVESTOCK AUCTION MARKETS

MARKET LOCATION	CATTLE	HORSES	SHEEP	SWINE	TOTAL
Baker.....	8,358	49	59	10,900	19,366
Billings Commission..	130,056	1,281	58,458	48	189,843
Billings Public.....	118,039	1,958	53,238	40,798	214,033
Bozeman.....	28,481	313	18,651	6,844	54,289
Butte.....	87,267	136	336	13,398	101,137
Dillon.....	7,982	2	14,754	3,399	26,137
Glasgow.....	49,943	237	5,400	38,865	94,445
Glendive.....	42,896	142	908	6,086	50,032
Great Falls.....	65,699	-0-	292	-0-	65,991
Hamilton.....	9,049	132	1,537	2,192	12,910
Havre.....	33,058	-0-	767	-0-	33,825
Kalispell.....	37,941	201	1,866	18,184	58,192
Lewistown.....	50,449	-0-	12,158	17,940	80,547
Miles City.....	34,067	87	330	1,059	35,543
Missoula.....	53,729	479	2,353	3,750	60,311
Shelby.....	17,457	35	178	-0-	17,670
Sidney.....	111,765	204	31,628	33,128	176,725
TOTAL INSPECTIONS....	886,236	5,256	202,913	196,591	1,290,996

TABLE IV

MONTANA VETERINARIANS' ANIMAL DISEASE REPORT

TYPE OF DISEASE	CATTLE		HORSES		SHEEP		SWINE		POULTRY		DOGS	CATS
	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Flocks	Cases	Cases
BACTERIAL DISEASES												
Actinomycosis-Bacillosis	1,825	1,139										
Bacillary hemoglobinuria	199	164										
Black Disease	1	1			1	1						
Blackleg	48	34										
Brucellosis			2	1								
Clostridium perfringens												
" sordelli	4	1										
" sp	6	2										
Diphtheria	128	59										
Distemper			823	376			6	1				
Dysentery							66	2				
Edema, malignant	8	8	1	1								
Enteritis							30	3				
" , E. coli	244	60										
" , necrotic							71	6				
Enterotoxemia	218	65			222	60						
Erysipelas							626	76				
Foot-Rot	2	1			6,758	27						
Leptospirosis	242	54	1	1			5	2			90	
Listeriosis					21	4						
Mastitis	189	47										
Pasteurellosis					25	1						
Pneumonia	106	19					44	5				
Pyosepticemia			1	1								
Ram epididymitis					34	10						
Streptococcicosis							1	1				
Tetanus	12	8	4	4								
Tuberculosis									2	2		
Vibriosis	715	27			81	4						
TOTAL BACTERIAL DISEASES	3,947	1,739	832	384	7,142	107	849	96	2	2	90	-0-

Table iv (Continued)

Montana Veterinarians' Animal Disease Report (Continued)

TYPE OF DISEASE	CATTLE		HORSES		SHEEP		SWINE		POULTRY		DOGS	CATS
	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Flocks	Cases	Cases
NUTRITIONAL DISEASES												
Atrophic rhinitis							199	58				
Grass tetany	45	21										
Ketosis					1	1						
Photosensitization	10	8										
Polioencephalomalacia	28	5										
White Muscle Disease	10	7			20	5						
Greasy Pig Disease							15	1				
TOTAL NUTRITIONAL DISEASES	93	41	-0-	-0-	21	6	214	59	-0-	-0-	-0-	-0-
PARASITIC DISEASES												
Acariasis					165	1						
Helminthiasis	2,521	89	128	19								
Lungworms	12	1										
Pediculosis					1,522	22						
Sarcoptic scabies											2	
TOTAL PARASITIC DISEASES	2,533	90	203	20	1,687	23	-0-	-0-	-0-	-0-	2	-0-
POISONING												
Forage	2	1										
Lead	4	1										
Locoweed	6	1										
Nitrate	15	2										
Penta	1	1										
TOTAL POISONING	28	6	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-

Table iv (Continued)

Montana Veterinarians' Animal Disease Report (Continued)

TYPE OF DISEASE	CATTLE		HORSES		SHEEP		SWINE		POULTRY		DOGS	CATS
	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Flocks	Cases	Cases
PROTOZOAN DISEASES												
Coccidiosis	3,912	456										
Eperythrozoonosis							2	1				
Hemobartonellosis												1
Toxoplasmosis											1	
TOTAL PROTOZOAN DISEASES	3,912	456	-0-	-0-	-0-	-0-	2	1	-0-	-0-	1	1
VIRAL AND RICKETTSIAL DISEASES												
Anaplasmosis	140	45										
Contagious ecthyma					566	12						
Distemper											1,561	
Encephalitis	4	4	12	12								
Enteritis: virus	10	1										
Enzootic abortion					10	1						
" Bovine Abortion	7	2										
Infectious anemia			2	2								
" hepatitis											125	
Influenza			840	500			1	1				
Lip and leg ulceration					10	2						
Malignant catarrhal fever	2	2										
Mucosal virus diarrhea	488	107										
Pneumonia							60	2				
Polyarthritis					30	1	10	1				
Posthitis					2	2						
Pox	149	9					15	1				
Rhinotracheitis	3,100	100										
Shipping fever	6,603	476										
Warts	58	28	1	1								
TOTAL VIRAL AND RICKETTSIAL	10,561	774	855	515	618	18	86	5	-0-	-0-	1,686	-0-

Table iv (Continued)

Montana Veterinarians' Animal Disease Report (Continued)

TYPE OF DISEASE	CATTLE		HORSES		SHEEP		SWINE		POULTRY		DOGS	CATS
	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Herds	Cases	Flocks	Cases	Cases
UNKNOWN ETIOLOGY												
Brisket edema.....	21	16										
Cancer eye.....	2,303	1,487										
Foot-Rot.....	313	86										
Gut edema.....							25	6				
Infectious keratitis.....	544	135										
Mastitis-metritis ag.....							2	2				
Pulmonary emphysema.....	460	164										
Urolithiasis.....	1,703	1,074			8	3						
TOTAL UNKNOWN ETIOLOGY.....	5,344	2,962	-0-	-0-	8	3	27	8	-0-	-0-	-0-	-0-
TOTAL ALL TYPES OF DISEASES.....	26,418	6,068	1,890	919	9,476	150	1,178	169	2	2	1,779	1

TABLE V

BRUCELLOSIS INFECTED HERDS

FISCAL YEAR	NUMBER OF INFECTED HERDS	PERCENT INFECTED HERDS IN MONTANA
First Area Test in Montana	2,434	7.96%
July 1, 1957	666	2.36%
July 1, 1958	357	1.24%
July 1, 1959	238	0.92%
July 1, 1960	135	0.56%
July 1, 1961	93	0.34%
July 1, 1962	49	0.16%
July 1, 1963	44	0.15%
July 1, 1964	36	0.14%
July 1, 1965	37	0.14%
July 1, 1966	30	0.12%
July 1, 1967	26	0.11%
July 1, 1968	14	0.07%
July 1, 1969	9	0.03%
July 1, 1970	13	0.06%
July 1, 1971	11	0.04%

TABLE VI

COUNTY DISTRIBUTION OF REMAINING BRUCELLOSIS INFECTED HERDS AS OF JUNE 30, 1971

COUNTY	NUMBER OF HERDS
Fallon	1
Flathead	2
Glacier	3
Hill	1
Sheridan	2
Valley	1
Yellowstone	1
TOTAL	11

TABLE VII

BOVINE BRUCELLOSIS TEST RECORD

FISCAL YEAR	NUMBER TESTED	NUMBER REACTORS	PERCENT
1962	96,079	337	0.35%
1963	107,404	227	0.20%
1964	91,484	455	0.40%
1965	123,878	438	0.35%
1966	160,969	602	0.31%
1967	129,502	500	0.38%
1968	120,643	376	0.31%
1969	128,343	341	0.26%
1970	163,570	507	0.31%
1971	242,890	451	0.18%

TABLE VIII

BOVINE BRUCELLOSIS RING TEST RECORD -- MILK AND CREAM

FISCAL YEAR	NUMBER TESTED	NUMBER SUSPICIOUS	PERCENT
1962	10,609	78	0.73%
1963	10,085	50	0.49%
1964	12,805	41	0.32%
1965	13,411	54	0.32%
1966	10,969	37	0.34%
1967	9,765	41	0.42%
1968	8,180	27	0.30%
1969	8,152	11	0.13%
1970	3,810	6	0.13%
1971	4,237	18	0.42%

TABLE IX

CALVES OFFICIALLY VACCINATED WITH BRUCELLA ABORTUS VACCINE - STRAIN 19

YEAR	DOSES	YEAR	DOSES	YEAR	DOSES	YEAR	DOSES	YEAR	DOSES
1962	209,472	1964	297,002	1966	287,642	1968	240,890	1970	247,844
1963	250,899	1965	267,367	1967	282,686	1969	231,782	1971	296,992

TABLE X

VALIDATED BRUCELLOSIS-FREE SWINE HERDS

FISCAL YEAR	NUMBER OF HERDS
1963	0
1964	9
1965	9
1966	10
1967	11
1968	10
1969	15
1970	15
1971	19

TABLE XI

NUMBER OF CATTLE TESTED FOR TUBERCULOSIS

FISCAL YEAR	NUMBER OF CATTLE	NUMBER OF REACTORS	PERCENT
1963	22,886	5	0.02%
1964	18,072	2	0.01%
1965	11,587	5	0.04%
1966	14,383	2	0.01%
1967	17,485	3	0.01%
1968	17,285	1	0.005%
1969	16,809	1	0.005%
1970	23,122	0	-0-
1971	21,743	1	0.00[illegible]%

TABLE XII

POSITIVE RABIES

DATE	TOWN	COUNTY	SPECIE	NUMBER
July 9, 1970	Antelope	Sheridan	Bat	1
December 30, 1970	Alzada	Carter	Skunk	1
February 5, 1971	Bainville	Roosevelt	Cow	1
June 1, 1971	Pompeys Pillar	Yellowstone	Skunk	1

TABLE XIII

RABIES IN MONTANA ANIMALS

FISCAL YEAR	BADGER	BAT	CAT	CATTLE	SHEEP	SKUNK	TOTAL
1963	-0-	-0-	-0-	-0-	-0-	-0-	-0-
1964	-0-	1	-0-	-0-	-0-	2	3
1965	-0-	3	-0-	1	-0-	5	9
1966	-0-	1	-0-	-0-	-0-	15	16
1967	-0-	1	-0-	1	1	2	5
1968	1	4	-0-	-0-	-0-	6	11
1969	-0-	5	-0-	1	-0-	7	13
1970	-0-	-0-	1	-0-	-0-	-0-	1
1971	-0-	1	-0-	1	-0-	2	4
TOTAL	1	16	1	4	1	39	62

TABLE XIV

OUT-OF-STATE BREEDERS HOLDING PERMITS TO IMPORT SEMEN FOR ARTIFICIAL INSEMINATION

All West Breeders, Burlington, Washington	134
American Breeders Service, Inc. Madison and DeForest, Wisconsin	120
Big Beef Hybrids, Stillwater, Minnesota	17
Carnation Breeding Service, Watertown, Wisconsin	255
Curtiss Breeding Service, Cary, Illinois	155
International Beef Breeders, Denver, Colorado	34
Prairie Breeders, Calgary, Alberta, Canada	39
Southern Breeders Ltd., Lethbridge, Alberta, Canada	1
United Breeders, Inc., Logan, Utah	2
Western Breeders, Balzac, Alberta, Canada	35
TOTAL	792

TABLE I

OFFICIAL INSPECTIONS AND LABORATORY TESTS
OF
MILK, MILK PRODUCTS, DAIRIES AND MILK PLANTS

OFFICIAL INSPECTIONS AND LABORATORY TESTS		NUMBER
Antibiotic detection tests		4,402
Bacterial counts		4,242
Brucella abortus ring tests		2,644
Chemical Analyses:		
General chemical	1,249	
Wisconsin Mastitis Tests	2,451	
Total Chemical Analyses		3,700
Coliform tests		4,438
Dairy inspections		1,240
Distributor facilities inspections		75
Milk plant equipment tests		91
Milk plant facilities inspections		113
Milk tank trucks inspections		41
Pesticide residue analyses		205
Tuberculosis tests		9,520
TOTAL OFFICIAL INSPECTIONS AND LABORATORY TESTS		31,297

TABLE II

RETAIL RAW DAIRIES SANITATION COMPLIANCE RATINGS
WITH
MONTANA LIVESTOCK SANITARY BOARD REGULATIONS

RETAIL RAW DAIRY CODE NUMBER	POUNDS SOLD DAILY	DAIRY SCORE
R-1	70	97%
R-2	900	99%
R-15	400	93%
R-21	240	91%
R-25	180	94%
R-33	160	91%
R-34	600	93%
R-35	100	93%
TOTALS AND AVERAGE	2,650	94%

TABLE III

MILK PLANT SANITATION COMPLIANCE RATINGS
WITH
MONTANA LIVESTOCK SANITARY BOARD REGULATIONS

MILK PLANT CODE NUMBER	POUNDS SOLD DAILY	PLANT SCORE	PRODUCER'S SCORE	PASTEURIZED MILK RATING
25-1	25,000	98%	94%	96%
25-2	65,000	88%	95%	91%
25-3	1,800	92%	95%	94%
25-4	4,000	90%	97%	93%
25-5	700	88%	96%	92%
25-7	34,000	92%	92%	92%
25-8	1,500	93%	90%	91%
25-10	82,000	96%	93%	94%
25-13	250	95%	96%	95%
25-15	800	97%	96%	96%
25-16	41,000	93%	90%	91%
25-18	50,000	94%	92%	93%
25-19	17,000	88%	93%	90%
25-20	18,000	94%	93%	93%
25-21	58,000	92%	91%	91%
25-25	25,000	89%	94%	91%
25-30	21,000	95%	94%	93%
25-32	65,000	94%	93%	93%
25-33	17,000	99%	94%	96%
25-36	690	95%	95%	95%
25-38	62,000	97%	95%	96%
25-39	6,000	94%	92%	93%
25-40	20,000	97%	93%	95%
25-43	800	91%	90%	90%
25-46	500	89%	93%	91%
25-47	58,000	94%	93%	93%
TOTALS AND AVERAGE..	675,040	93%	94%	93%

TABLE I

ESTABLISHMENTS UNDER OFFICIAL STATE MEAT INSPECTION

ESTABLISHMENT NAME	LOCATION	ESTABLISHMENT NO.
Meat Packing Houses		
Amy's Sausage Kitchen	Butte	55
Arctic Lockers	Kalispell	37
Ben's H & H Market	Missoula	29
Big Sky Market	Manhattan	52
Buck's Meat Processing & Sales	Broadus	45
Christensen's Wholesale Meats	Missoula	39
Diamond Bar Meats	Missoula	38
Excelsior Meat Market	Butte	57
Great Falls Meat Company	Great Falls	36
Hickory Kitchen	Great Falls	31
K & C Meat Supply	Missoula	40
Kim's Meat Company, Inc	Rollins	54
Maddison Meats	Sheridan	41
M & P Meat Company, Inc	Great Falls	34
Marchello's I.G.A	Red Lodge	51
Montana Meat Company	Helena	5
Northside Locker Plant, Inc	Billings	53
Pioneer Products, Inc	Billings	42
Pioneer Products, Inc. #2	Billings	42B
Riley's Meats	Butte	56
Snowy Mountain Meats	Lewistown	33
Spear Meat Company	Billings	50
Terminal Food Center, Inc	Butte	30
Tower Meats	Helena	58
Triplett Meats	Kalispell	35
Valley Distributors, Inc	Billings	32
Weggenman's Market	Helena	59
Your Food Bank	Billings	43
Slaughterhouses		
Barsotti Meat Plant	Great Falls	8
*Biastoch Meats, Inc	Butte	13
Brooke Processing Plant	Whitehall	28
City Meat Company	Wolf Point	25
*Fan Mountain Meats	Ennis	19
*Hamilton Packing Company	Hamilton	47
Hardin Meat Market	Hardin	20
*Havre Abattoir	Havre	12
*Kalispell Meat Company	Kalispell	9
*Marias Packing Company	Shelby	17
*Mickey's Packing Plant	Great Falls	18
*Miles City Packing Company	Miles City	26
*Montana Meat Market	Red Lodge	2
Montana State Prison	Deer Lodge	4
Montana State University	Bozeman	23
*Rahr Meat Service	Glendive	6
*Rick's Packing Plant	Livingston	10

Table 1 (Continued)

Establishments Under Official State Meat Inspection (Continued)

ESTABLISHMENT NAME	LOCATION	ESTABLISHMENT NO.
Slaughterhouses (Continued)		
*Roberts Packing Plant	Dillon	16
*Rocky Mountain Packing Company, Inc.	Havre	21
*Schramm Packing Company	Missoula	3
*Seitz-Bowers Processing Plant	Roundup	48
Stanford Meat Market	Stanford	11
*Timberland Packing Corporation	Lewistown	22
*Tolman's Meat Company	Hamilton	46
*Triangle Packing Company	Choteau	27
*Valley Meat Packing Company	Sidney	24
*Vandevanter Meats	Columbia Falls	7
*White's Meat Processing	Ronan	15

*Also does meat processing.

TABLE II

ESTABLISHMENTS UNDER FEDERAL MEAT INSPECTION

ESTABLISHMENT NAME	LOCATION	ESTABLISHMENT NO.
Meat Depot		
Safeway Stores, Inc.	Butte	2440
Meat Packing Houses		
4B's Wholesale Supply, Inc.	Missoula	2480
Montana Smokehouse, Inc.	Kalispell	2490
Swift & Co.	Billings	2493
Truzzolino Food Products	Butte	1291
Slaughterhouses		
Bonanza Packing Co., Inc.	Helena	1475A
Great Falls Meat Co.	Great Falls	301
John R. Daily, Inc.	Missoula	2480
Midland Empire Packing Co.	Billings	339
Pierce Packing Co.	Billings	691

TABLE III

OFFICIAL ESTABLISHMENT INSPECTIONS

TYPE OF ESTABLISHMENT	NUMBER OF INSPECTIONS
Meat Depots	10
Meat Packing Houses	113
Poultry Meat Packing Houses	6
Rendering Plants	37
Slaughterhouses	168
Poultry Slaughterhouses	3
Rabbit Slaughterhouses	2
TOTAL OFFICIAL ESTABLISHMENT INSPECTIONS	339

TABLE IV

ANIMALS SLAUGHTERED UNDER STATE AND FEDERAL MEAT INSPECTION

SPECIE	STATE Number	FEDERAL Number
Cattle	26,224	133,535
Calves	319	-0-
Sheep	1,503	-0-
Swine	24,715	292,326
TOTAL	52,761	425,861

TABLE V

WHOLE CARCASSES FOUND UNFIT FOR HUMAN CONSUMPTION
UNDER STATE AND FEDERAL MEAT INSPECTION

SPECIE	STATE Number	FEDERAL Number
Cattle	49	547
Calves	-0-	-0-
Sheep	1	-0-
Swine	27	556
TOTAL	77	1,103

TABLE VI

PARTS OF CARCASSES FOUND UNFIT FOR HUMAN CONSUMPTION
UNDER STATE AND FEDERAL MEAT INSPECTION

SPECIE	STATE Number	FEDERAL Number
Cattle	2,183	12,381
Calves	3	-0-
Sheep	427	-0-
Swine	12,276	43,451
TOTAL	14,889	55,832

TABLE VII

NUMBER OF BEEF AND SWINE LIVERS FOUND UNFIT FOR HUMAN CONSUMPTION
UNDER STATE AND FEDERAL MEAT INSPECTION

SPECIE	STATE	FEDERAL
Beef	6,956	40,346
Swine	9,205	46,006
TOTAL	16,161	86,352

TABLE VIII

POUNDS OF MEAT AND/OR MEAT BY-PRODUCTS PROCESSED UNDER STATE MEAT INSPECTION

TYPE OF PROCESSING	POUNDS
Placed in Cure	
Beef	6,615
Pork	712,084
Other	10,288
Smoked and/or Dried	
Beef	12,308
Pork	633,648
Sausage -- Fresh Finished	458,538
Sausage -- Smoked or Cooked	
Franks, Wieners, Bologna	586,503
Other	175,303
Loaf	
Head Cheese; Chili; Jellied Product; Imitation Sausage	110,380
Steak; Chops; Roasts; Boneless Cuts	4,425,209
Sliced Product	
Bacon	62,127
Other	39,292
Hamburger	1,962,903
Frozen & Unfrozen -- Specialty Items	656,388
Lard -- Rendered	236,984
Edible Tallow	10,707
Compound Containing Animal Fat	85,700
Boneless Beef	1,323,585
Pork Cut	1,656,046
Beef -- Wholesale Cuts	4,318,559
Poultry -- Cut Up	82,024
TOTAL POUNDS PROCESSED	17,565,196

TABLE IX

MEAT AND MEAT BY-PRODUCTS REINSPECTED AND REJECTED UNDER STATE MEAT INSPECTION

ITEM	POUNDS
Reinspected Meat and/or Meat By-Product	10,667,094
Rejected Meat and/or Meat By-Product	1,431
TOTAL POUNDS REINSPECTED AND REJECTED	10,668,525

TABLE X

POUNDS OF BONELESS MANUFACTURING MEAT (BEEF) REJECTED AND ACCEPTED

TOTAL LOT SIZE (Pounds)	REJECTED (Pounds)	ACCEPTED (Pounds)
584,569	13,700	570,869

TABLE XI

DIAGNOSES OF WHOLE CARCASSES CONDEMNED AT SLAUGHTER UNDER STATE MEAT INSPECTION

DIAGNOSIS	CATTLE	CALVES	SHEEP	SWINE
Abscesses-Pyemia	12	0	0	18
Actinomycosis-Actinobacillosis	1	0	0	0
Adhesions	0	0	0	0
Anasarca	4	0	0	0
Arthritis-Polyarthritis	3	0	0	0
Bruises, injuries, etc	3	0	0	1
Emaciation	1	0	0	1
Enteritis-Gastritis-Peritonitis	3	0	0	1
Epithelioma	3	0	0	0
Icterus	1	0	0	0
Livers, miscellaneous lesions	0	0	1	0
Nephritis-Pyelitis	1	0	0	0
Pneumonia	4	0	0	0
Septicemia-Toxemia	4	0	0	4
Tuberculosis	2	0	0	0
Uremia	4	0	0	0
Miscellaneous	3	0	0	2
TOTAL WHOLE CARCASSES CONDEMNED	49	0	1	27

TABLE XII

DIAGNOSES OF BEEF LIVERS CONDEMNED AT SLAUGHTER UNDER STATE MEAT INSPECTION

DIAGNOSIS	NUMBER
Abscesses	3,747
Carotinosis	7
Cirrhosis	55
Contamination	348
Distomiasis	2,052
Sawdust	149
Telangiectasis	235
Miscellaneous	363
TOTAL BEEF LIVERS CONDEMNED	6,956

TABLE XIII

DIAGNOSES OF PARTS OF CARCASSES CONDEMNED AT SLAUGHTER
UNDER STATE MEAT INSPECTION

DIAGNOSIS	CATTLE	CALVES	SHEEP	SWINE
Abscesses-Pyemia	324	0	20	753
Actinomycosis-Actinobacillosis	66	0	0	1
Adhesions	79	0	1	96
Anasarca	0	0	0	0
Arthritis-Polyarthritis	13	0	0	26
Bruises, injuries, etc	432	2	7	600
Caseous lymphadenitis	0	0	0	1
Contamination	1,145	0	60	1,149
Epithelioma	35	0	0	0
Livers, miscellaneous lesions	0	1	338	9,205
Nephritis-Pyelitis	39	0	0	2
Pericarditis	40	0	1	151
Pneumonia	7	0	0	23
Tuberculosis	2	0	0	266
Uremia	0	0	0	2
Miscellaneous	1	0	0	1
TOTAL PARTS OF CARCASSES CONDEMNED	2,183	3	427	12,276